

Date: Fri, 23 Jul 93 03:46:16 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #890
To: Info-Hams

Info-Hams Digest Fri, 23 Jul 93 Volume 93 : Issue 890

Today's Topics:

 List of conrties and call prefixes
 Popular Electronics advertises perpetual-motion machine.
 pse on the mail-reflector
 S meters and modern technology
 S Meters and Modern Technology (was Re: TS50)
 Super Morse problem in Windows
 UCSD gateway HELP!

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 22 Jul 93 16:47:01 GMT
From: ogicse!uwm.edu!vixen.cso.uiuc.edu!moe.ksu.ksu.edu!cis.ksu.edu!
mac@network.ucsd.edu
Subject: List of conrties and call prefixes
To: info-hams@ucsd.edu

julian@bongo.tele.com (Julian Macassey) writes:
>>I was wondering if there was a list of contries and their
>>call prefixes?

> Yes, there is. There are several. If you buy a DX callbook,
>they are in the back. They also appear in various ARRL publications.

Here is an on-line version (reformat it to your own needs):

----- cut here ----- cut here ----- cut here -----

From: wmb@ulysses.att.com (W M Brelsford)
Date: 3 Sep 91 20:47:20 GMT
Newsgroups: rec.radio.amateur.misc
Subject: DXCC Country List

The current ARRL DXCC country list follows. Changes from the previous posting (11/90) include the addition of Penguin Islands (ZS1) and North Korea (P5; effective with the first accredited operation), and other minor modifications.

Much of the information was provided by Ron McConnell, W2IOL.

The colon-separated fields are:

1. primary amateur prefix ("*" suffix for deleted countries)
2. country name
3. continent
4. ITU zone(s)
5. CQ zone(s)
6. time zone (hours from UTC)
7. latitude
8. longitude
9. ITU prefix allocation(s)
10. other amateur prefixes

Please mail corrections and suggestions to me.

Bill Brelsford, K2DI
AT&T, Basking Ridge NJ
wmb@joplin.att.com

A1:Abu Ail, Jabal at Tair:As:39:21:+2:14N:43E:A1~:J2/A
A2:Botswana:Af:57:38:+2:25S:26E:A2,80:
A3:Tonga:Oc:62:32:+13:21S:175W:A3:
A4:Oman:As:39:21:+4:24N:59E:A4:
A5:Bhutan:As:41:22:+5.5:27N:90E:A5:
A6:United Arab Emirates:As:39:21:+4:24N:54E:A6:
A7:Qatar:As:39:21:+4:25N:52E:A7:
A9:Bahrain:As:39:21:+4:26N:51E:A9:
AC3*:Sikkim:As:41:22:+5.5:27N:89E::
AC4*:Tibet:As:41:23:+6:30N:92E::
AP:Pakistan:As:41:21:+5:34N:73E:AP-AS,6P-6S:
BV:Taiwan:As:44:24:+8:25N:122E::
BY:China:As:33,42,43,44:23,24:+8:40N:116E:BA-BZ,XS,3H-3U:
C2:Nauru:Oc:65:31:+11.5:0S:167E:C2:
C3:Andorra:Eu:27:14:+1:43N:2E:C3:
C5:The Gambia:Af:46:35:+0:13N:17W:C5:

C6: Bahamas: NA: 11:08: -5:25N: 77W: C6:
C9: Mozambique: Af: 53:37: +2:26S: 33E: C8-C9:
C9*: Manchuria: As: 33:24: +8.5: 46N: 127E: :
CE: Chile: SA: 14,16: 12: -4:33S: 71W: CA-CE, XQ-XR, 3G:
CE9: Antarctica: An: 67,69,70,71,72,73,74: 12,13,29,30,32,38,39: +0:90S: 0W: : AT0, DP0, FT_
Y, KC4, LU_Z, OR4, VK0, VP8, Y8, ZL5, ZS7, ZX0, 3Y, 4K1, 8J1
CE0A: Easter Is: SA: 63:12: -7:27S: 109W: :
CE0X: San Felix: SA: 14:12: -5:26S: 80W: :
CE0Z: Juan Fernandez: SA: 14:12: -4:34S: 79W: :
CN: Morocco: Af: 37:33: +0:34N: 7W: CN, 5C-5G:
CN2*: Tangier: Af: 37:33: +0:36N: 8W: :
CO: Cuba: NA: 11:08: -5:23N: 82W: CL, CM, CO, T4:
CP: Bolivia: SA: 12,14: 10: -4:17S: 68W: CP:
CR8*: Damao, Diu: As: 41:22: +5.5: 21N: 71E: :
CR8*: Goa: As: 41:22: +5.5: 16N: 74E: :
CR8*: Portuguese Timor: Oc: 54:28: +8:9S: 126E: :
CT: Portugal: Eu: 37:14: +1:39N: 9W: CQ-CU, XX:
CT3: Madeira Is: Af: 36:33: -1:33N: 17W: :
CU: Azores: Eu: 36:14: -1:38N: 26W: : CT2
CX: Uruguay: SA: 14:13: -3:35S: 56W: CV-CX:
CY9: St Paul Is: NA: 09:05: -5:47N: 60W: :
CY0: Sable Is: NA: 09:05: -5:44N: 60W: :
D2: Angola: Af: 52:36: +1:9S: 13E: D2-D3:
D4: Cape Verde: Af: 46:35: -2:15N: 23W: D4:
D6: Comoros: Af: 53:39: +3:12S: 43E: D6:
DL: Germany: Eu: 28:14: +1:52N: 7E: DA-DR, Y2-Y9:
DL*: Germany: Eu: 28:14: +1:52N: 7E: : DA-DM
DU: Philippines: Oc: 50:27: +8:15N: 121E: DU-DZ, 4D-4I:
EA: Spain: Eu: 37:14: +1:40N: 4W: AM-AO, EA-EH:
EA6: Balearic Is: Eu: 37:14: +1:38N: 3E: :
EA8: Canary Is: Af: 36:33: +0:28N: 15W: :
EA9: Ceuta & Melilla: Af: 37:33: +1:36N: 5W: :
EA9*: Ifni: Af: 37:33: +0:29N: 10W: :
EI: Ireland: Eu: 27:14: +0:53N: 6W: EI-EJ:
EL: Liberia: Af: 46:35: -0.75: 6N: 11W: A8, D5, EL, 5L-5M, 6Z:
EP: Iran: As: 40:21: +3.5: 36N: 51E: EP-EQ, 9B-9D:
ES: Estonia: Eu: 29:15: +3:59N: 25E: : UR
ET: Ethiopia: Af: 48:37: +3:9N: 39E: ET, 9E-9F:
ET2*: Eritrea: Af: 48:37: +3:15N: 39E: :
F: France: Eu: 27:14: +1:49N: 2E: FA-FZ, HW-HY, TH, TK, TM, TO-TQ, TV-TX:
FF*: French W Africa: Af: 46:35: +0:15N: 18W: :
FG: Guadeloupe: NA: 11:08: -4:16N: 62W: :
FH: Mayotte: Af: 53:39: +3:13S: 45E: :
FH*: Comoros: Af: 53:39: +3:12S: 43E: : FB8
FI8*: Fr Indo China: As: 49:26: +7:11N: 107E: :
FK: New Caledonia: Oc: 56:32: +11:22S: 167E: :
FM: Martinique: NA: 11:08: -4:15N: 61W: :
FN8*: French India: As: 41:22: +5.5: 12N: 80E: :

FO:Clipperton Is:NA:10:07:-7:10N:109W::
FO:French Polynesia:Oc:63:32:-10:18S:150W::
FP:St Pierre & Miquelon:NA:09:05:-4:47N:56W::
FQ8*:Fr Equatorial Africa:Af:47,52:36:+1:5N:18E::
FR:Glorioso Is:Af:53:39:+3:12S:47E::
FR:Juan de Nova, Europa:Af:53:39:+3:17N:43E::
FR:Reunion:Af:53:39:+4:21S:55E::
FR:Tromelin:Af:53:39:+4:16S:54E::
FS:St Martin:NA:11:08:-4:18N:63W::FG,FJ
FT_W:Crozet:Af:68:39:+3:46S:52E::
FT_X:Kerguelen Is:Af:68:39:+5:50S:70E::
FT_Z:Amsterdam & St Paul Is:Af:68:39:+5:38S:78E::
FW:Wallis & Futuna Is:Oc:62:32:-10.5:14S:172W::
FY:French Guiana:SA:12:09:-4:5N:52W::
G:England:Eu:27:14:+0:52N:0W:GA-GZ,MA-MZ,VP-VS,ZB-ZJ,ZN-ZO,ZQ,2A-2Z:
GD:Isle of Man:Eu:27:14:+0:54N:4W::
GI:No Ireland:Eu:27:14:+0:55N:6W::
GJ:Jersey:Eu:27:14:+0:49N:2W::
GM:Scotland:Eu:27:14:+0:57N:2W::
GU:Guernsey:Eu:27:14:+0:49N:3W::
GW:Wales:Eu:27:14:+0:52N:3W::
H4:Solomon Is:Oc:51:28:+11:9S:160E:H4:
HA:Hungary:Eu:28:15:+1:48N:19E:HA,HG:
HB:Switzerland:Eu:28:14:+1:47N:7E:HB,HE:
HB0:Liechtenstein:Eu:28:14:+1:47N:10E::
HC:Ecuador:SA:12:10:-5:0N:79W:HC-HD:
HC8:Galapagos Is:SA:12:10:-5:1S:90W::
HH:Haiti:NA:11:08:-5:19N:72W:HH,4V:
HI:Dominican Rep:NA:11:08:-5:18N:70W:HI:
HK:Colombia:SA:12:09:-5:5N:74W:HJ-HK,5J-5K:
HK0:Malpelo Is:SA:12:09:-5:4N:82W::
HK0:San Andres & Providencia:NA:11:07:-6:13N:82W::
HK0*:Bajo Nuevo:NA:11:08:-5:16N:79W::
HK0*:Serrana Bnk, Roncador Cay:NA:11:07:-5:14N:80W::KP3,KS4
HL:South Korea:As:44:25:+9:38N:127E:DS-DT,D7-D9,HL-HM,P5-P9,6K-6N:
HP:Panama:NA:11:07:-5:9N:80W:HO-HP,H3,H8-H9,3E-3F:
HR:Honduras:NA:11:07:-6:14N:87W:HQ-HR:
HS:Thailand:As:49:26:+6:14N:101E:E2,HS:
HV:Vatican:Eu:28:15:+1:42N:13E:HV:
HZ:Saudi Arabia:As:39:21:+3:25N:47E:HZ,7Z,8Z:
I:Italy:Eu:28:15:+1:42N:12E:IA-IZ:
I1*:Trieste:Eu:28:15:+1:46N:14E::
I5*:Ital Somaliland:Af:48:37:+3:2N:46E::
IS:Sardinia:Eu:28:15:+1:39N:9E::
J2:Djibouti:Af:48:37:+3:12N:43E:J2:
J3:Grenada:NA:11:08:-4:12N:62W:J3:
J5:Guinea-Bissau:Af:46:35:-1:12N:16W:J5:
J6:St Lucia:NA:11:08:-4:14N:61W:J6:

J7:Dominica:NA:11:08:-4:15N:61W:J7:
J8:St Vincent:NA:11:08:-4:13N:61W:J8:
JA:Japan:As:45:25:+9:36N:140E:JA-JS,7J-7N,8J-8N:KA1
JD:Minami Torishima:Oc:45/90:27:+10:24N:154E::KA1
JD:Ogasawara:As:45:27:+10:28N:142E::KA1
JD1*:Okino Tori-shima:As:45:27:+10:30N:140E::7J1
JT:Mongolia:As:32,33:23:+7.5:48N:107E:JT-JV:
JW:Svalbard:Eu:18:40:+1:78N:16E::
JX:Jan Mayen:Eu:18:40:-1:71N:9W::
JY:Jordan:As:39:20:+2:32N:36E:JY:
JZ0*:Neth New Guinea:Oc:51:28:+10:10S:147E::
K:United States:NA:06,07,08:03,04,05:-5:39N:77W:AA-AL,KA-KZ,NA-NZ,WA-WZ:
KC6:Belau:Oc:64:27:+10:7N:134E::
KG4:Guantanamo Bay:NA:11:08:-5:20N:75W::
KH1:Baker & Howland Is:Oc:61:31:-12:0N:176W::
KH2:Guam:Oc:64:27:+10:13N:145E::
KH3:Johnston Is:Oc:61:31:-11:17N:170W::
KH4:Midway Is:Oc:61:31:-11:28N:177W::
KH5:Palmyra, Jarvis Is:Oc:61:31:-11:6N:162W::
KH5K:Kingman Reef:Oc:61:31:-11:6N:162W::
KH6:Hawaii:Oc:61:31:-10:21N:158W::
KH7:Kure Is:Oc:61:31:-11:29N:178W::
KH8:Am Samoa:Oc:62:32:-11:14S:171W::
KH9:Wake Is:Oc:65:31:+12:19N:167E::
KH0:Mariana Is:Oc:64:27:+10:15N:146E::
KL7:Alaska:NA:01,02:01:-8:58N:134W::
KP1:Navassa Is:NA:11:08:-5:18N:75W::
KP2:Virgin Is:NA:11:08:-4:18N:65W::
KP4:Puerto Rico:NA:11:08:-4:18N:66W::
KP5:Desecheo Is:NA:11:08:-4:18N:68W::
KR6*:Okinawa (Ryukyu):As:45:25:+8:26N:128E::KR8,JR6,KA6
KS4*:Swan Is:NA:11:07:-6:17N:84W::
KZ5*:Canal Zone:NA:11:07:-5:9N:80W::
LA:Norway:Eu:18:14:+1:60N:11E:JW-JX,LA-LN,3Y:
LU:Argentina:SA:14,16:13:-3:35S:58W:AY-AZ,LO-LW,L2-L9:
LX:Luxembourg:Eu:27:14:+1:50N:6E:LX:
LY:Lithuania:Eu:29:15:+3:55N:25E::UP
LZ:Bulgaria:Eu:28:20:+2:43N:23E:LZ:
OA:Peru:SA:12:10:-5:12S:78W:OA-OC,4T:
OD:Lebanon:As:39:20:+2:34N:36E:OD:
OE:Austria:Eu:28:15:+1:48N:16E:OE:
OH:Finland:Eu:18:15:+2:60N:25E:OF-OJ:
OH0:Aland Is:Eu:18:15:+2:60N:20E::
OJ0:Market Reef:Eu:18:15:+2:60N:19E::
OK:Czechoslovakia:Eu:28:15:+1:50N:15E:OK-OM:
ON:Belgium:Eu:27:14:+1:51N:4E:ON-OT:
OX:Greenland:NA:05,75:40:-3:64N:52W::XP
OY:Faroe Is:Eu:18:14:+0:62N:7W::

OZ:Denmark:Eu:18:14:+1:56N:13E:OU-OZ,XP,5P-5Q:
P2:Papua New Guinea:Oc:51:28:+10:10S:147E:P2:
P2*:Papua Terr:Oc:51:28:+10:10S:147E::VK9
P2*:Terr New Guinea:Oc:51:28:+10:10S:147E::VK9
P4:Aruba:SA:11:09:-4:13N:70W:P4:
P5:North Korea:As:44:25:+9:39N:126E::
PA:Netherlands:Eu:27:14:+1:52N:5E:PA-PI:
PJ2:Neth Antilles:SA:11:09:-4:12N:69W:PJ:PJ4,PJ9
PJ5:St Maarten, Saba, St Eus:NA:11:08:-4:18N:63W::PJ6-8
PK1*:Java:Oc:54:28:+7.5:6S:107E::PK23
PK4*:Sumatra:Oc:54:28:+7:1S:100E::
PK5*:Netherlands Borneo:Oc:54:28:+8:3S:115E::
PK6*:Celebe & Molucca Is:Oc:54:28:+8:5S:119E::
PY:Brazil:SA:12,13,15:11:-3:16S:48W:PP-PY,ZV-ZZ:
PY0:Fernando de Noronha:SA:13:11:-2:4S:32W::
PY0:St Peter & St Paul Rocks:SA:13:11:-2:0N:29W::
PY0:Trindade & Martin Vaz Is:SA:15:11:-2:21S:29W::
PZ:Surinam:SA:12:09:-3.5:6N:55W:PZ:
S2:Bangladesh:As:41:22:+6:24N:90E:S2-S3:
S7:Seychelles:Af:53:39:+4:5S:55E:S7:
S9:Sao Tome & Principe:Af:47:36:+0:0N:7E:S9:
S0:Western Sahara:Af:37:33:+0:27N:13W:S0~:
SM:Sweden:Eu:18:14:+1:59N:18E:SA-SM,7S,8S:
SP:Poland:Eu:28:15:+1:52N:21E:HF,SN-SR,3Z:
ST:Sudan:Af:48:34:+2:16N:33E:SSN-SSZ,ST,6T-6U:
ST0:Southern Sudan:Af:48:34:+2:5N:32E::
SU:Egypt:Af:38:34:+2:31N:31E:SSA-SSM,SU,6A-6B:
SV:Greece:Eu:28:20:+2:38N:24E:J4,SV-SZ:
SV5:Dodecanese:Eu:28:20:+2:36N:28E::
SV9:Crete:Eu:28:20:+2:36N:24E::
SY:Mt Athos:Eu:28:20:+2:40N:24E::SV1/A
T2:Tuvalu:Oc:65:31:+12:9S:179E:T2:
T31:Central Kiribati:Oc:62:31:+12:4S:171W:T3:
T32:East Kiribati:Oc:61,63:31:+12:2N:158W::
T33:Banaba:Oc:65:31:+11.5:1S:170E::
T30:West Kiribati:Oc:65:31:+12:1S:173E::
T5:Somali:Af:48:37:+3:2N:46E:T5,60:
T7:San Marino:Eu:28:15:+1:44N:12E:T7:
TA:Turkey:As, Eu:39:20:+2:40N:33E:TA-TC,YM:
TF:Iceland:Eu:17:40:0:64N:22W:TF:
TG:Guatemala:NA:11:07:-6:16N:92W:TD,TG:
TI:Costa Rica:NA:11:07:-6:10N:84W:TE,TI:
TI9:Cocos Is:NA:11:07:-6:6N:87W::
TJ:Cameroon:Af:47:36:+1:4N:12E:TJ:
TK:Corsica:Eu:28:15:+1:42N:9E::
TL:Central African Rep:Af:47:36:+1:5N:19E:TL:
TN:Congo:Af:52:36:+1:4S:15E:TN:
TR:Gabon:Af:52:36:+1:1N:10E:TR:

TT:Chad:Af:47:36:+1:12N:15E:TT:
TU:Ivory Coast:Af:46:35:+0:5N:4W:TU:
TY:Benin:Af:46:35:+0:6N:3E:TY:
TZ:Mali:Af:46:35:+0:13N:8W:TZ:
UA1:Russia (European):Eu:19,20,29,30:16:+3:56N:37E:EK,EM-EO,ER-ES,EX-EZ,LY,RA-
RZ,UA-UZ,YL,4J-4L:UA346,UN,UV,UW,UZ
UA2:Kaliningrad:Eu:29:15:+3:55N:21E::UZ2
UA9:Russia
(Asiatic):As:20,21,22,23,24,25,26,30,31,32,33,34,35,75:16,17,18,19,23:+7:52N:104E:
:UA0,UN,UV,UW,UZ
UB:Ukraine:Eu:29:16:+3:50N:30E::UT,UY
UC:Byelorussia:Eu:29:16:+3:54N:28E:EU-EW:
UD:Azerbaijan:As:29:21:+4:40N:50E::
UF:Georgia:As:29:21:+4:42N:45E::
UG:Armenia:As:29:21:+4:40N:45E::
UH:Turkmenistan:As:30:17:+5:38N:58E::
UI:Uzbekistan:As:30:17:+6:41N:69E::
UJ:Tadzhikistan:As:30:17:+6:39N:69E::
UL:Kazakhstan:As:29,30,31:17:+5.5:43N:77E::
UM:Kirghizia:As:30,31:17:+6:43N:75E::
UN1*:Karelo-Finnish Rep:Eu:19:16:+3:64N:32E::
UO:Moldavia:Eu:29:16:+3:47N:29E::
V2:Antigua, Barbuda:NA:11:08:-4:17N:62W:V2:
V3:Belize:NA:11:07:-5.5:17N:89W:V3:
V4:St Kitts, Nevis:NA:11:08:-4:17N:63W:V4:
V5:Namibia:Af:57:38:+2:22S:17E:V5:ZS3
V6:Micronesia:Oc:65:27:+11:7N:158E:V6:KC6
V7:Marshall Is:Oc:65:31:+12:7N:171E:V7:KX6
V8:Brunei:Oc:54:28:+8:5N:115E:V8:
VE:Canada:NA:02,03,04,09,75:01,02,03,04,05:-5:45N:76W:CF-CK,CY-CZ,VA-VG,VO,VX-
VY,XJ-XO:
VK:Australia:Oc:55,58,59:29,30:+10:35S:149E:AX,VH-VN,VZ:
VK9L:Lord Howe Is:Oc:60:30:+10:31S:159E::
VK9N:Norfolk Is:Oc:60:32:+11.5:29S:168E::
VK9X:Christmas Is:Oc:54:29:+7:10S:106E::
VK9Y:Cocos-Keeling Is:Oc:54:29:+6.5:12S:97E::
VK9Z:Mellish Reef:Oc:55:30:+10:17S:156E::
VK9Z:Willis Is:Oc:55:30:+10:16S:150E::
VK0:Heard Is:Af:68:39:+5:53S:73E::
VK0:Macquarie Is:Oc:60:30:+11:54S:159E::
VO*:Newfoundland, Labrador:NA:09:02,05:-3.5:48N:53W::
VP2E:Anguilla:NA:11:08:-4:18N:63W::
VP2M:Montserrat:NA:11:08:-4:17N:62W::
VP2V:Br Virgin Is:NA:11:08:-4:18N:65W::
VP5:Turks & Caicos Is:NA:11:08:-5:22N:72W::
VP8:Falkland Is:SA:16:13:-4:52S:58W::
VP8:So Georgia Is:SA:73:13:-1.5:54S:37W::LU_Z
VP8:So Orkney Is:SA:73:13:-3:61S:45W::LU_Z

VP8:So Sandwich Is:SA:73:13:-3:59S:27W::LU_Z
VP8:So Shetland Is:SA:73:13:-4:62S:59W::LU_Z,CE9,HF0,4K1
VP9:Bermuda:NA:11:05:-4:32N:65W::
VQ1*:Zanzibar:Af:53:37:+3:7S:39E::5H1
VQ6*:British Somaliland:Af:48:37:+3:2N:46E::
VQ9:Chagos:Af:41:39:+5:7S:72E::
VQ9*:Aldabra:Af:53:39:+4:9S:46E::
VQ9*:Desroches:Af:53:39:+4:6S:55E::
VQ9*:Farquhar:Af:53:39:+4:10S:51E::
VR6:Pitcairn Is:Oc:63:32:-8.5:25S:130W::
VS2*:Malaya:As:54:28:+7.5:3N:102E::9M2
VS4*:Sarawak:Oc:54:28:+8:2N:110E::
VS6:Hong Kong:As:44:24:+8:22N:114E::
VS9H*:Kuria Muria Is:As:39:21:+4:18N:56E::
VU:India:As:41:22:+5.5:29N:77E:AT-AW,VT-VW,8T-8Y:
VU7:Andaman & Nicobar Is:As:49:26:+5.5:12N:93E::
VU7:Laccadive Is:As:41:22:+5.5:11N:73E::
XE:Mexico:NA:10:06:-6:20N:99W:XA-XI,4A-4C,6D-6J:
XF4:Revilla Gigedo:NA:10:06:-7:18N:113W::
XT:Burkina Faso:Af:46:35:+0:12N:2W:XT:
XU:Cambodia:As:49:26:+8:12N:105E:XU:
XW:Laos:As:49:26:+7:20N:102E:XW:
XX9:Macao:As:44:24:+8:22N:114E::
XZ:Myanmar (Burma):As:49:26:+6.5:17N:96E:XY-XZ:
Y2*:East Germany:Eu:28:14:+1:53N:13E::
YA:Afghanistan:As:40:21:+4.5:35N:69E:T6,YA:
YB:Indonesia:Oc:51,54:28:+7.5:6S:107E:JZ,PK-PO,YB-YH,7A-7I,8A-8I:
YI:Iraq:As:39:21:+3:32N:45E:HN,YI:
YJ:Vanuatu:Oc:56:32:+11:18S:168E:YJ:
YK:Syria:As:39:20:+2:34N:36E:YK,6C:
YL:Latvia:Eu:29:15:+3:57N:24E::UQ
YN:Nicaragua:NA:11:07:-6:12N:87W:HT,H6-H7,YN:
YO:Romania:Eu:28:20:+2:45N:26E:YO-YR:
YS:El Salvador:NA:11:07:-6:14N:89W:HU,YS:
YU:Yugoslavia:Eu:28:15:+1:45N:20E:YT-YU,YZ,4N-40:
YV:Venezuela:SA:12:09:-4:10N:67W:YV-YY,4M:
YV0:Aves Is:NA:11:08:-4:16N:64W::
Z2:Zimbabwe:Af:53:38:+2:18S:31E:Z2:
ZA:Albania:Eu:28:15:+1:41N:20E:ZA:
ZB:Gibraltar:Eu:37:14:+1:37N:5W::
ZC:Cyprus SBA:As:39:20:+2:36N:33E::
ZC5*:Br North Borneo:Oc:54:28:+8:6N:116E::
ZC6*:Palestine:As:39:20:+2:32N:35E::4X1
ZD4*:Gold Coast, Togoland:Af:46:35:+0:5N:0W::
ZD7:St Helena:Af:66:36:+0:16S:6W::
ZD8:Ascension Is:Af:66:36:0:8S:14W::
ZD9:Tristan da Cunha & Gough Is:Af:66:38:0:37S:12W::
ZF:Cayman Is:NA:11:08:-5:19N:81W::

ZK1:No Cook Is:0c:62:32:-10.5:10S:161W::
ZK1:So Cook Is:0c:63:32:-10.5:22S:158W::
ZK2:Niue:0c:62:32:-11:19S:170W::
ZK3:Tokelau Is:0c:62:31:-11:9S:171W::
ZL:New Zealand:0c:60:32:+12:41S:175E:ZK-ZM:
ZL7:Chatham Is:0c:60:32:+12.75:44S:177W::
ZL8:Kermadec Is:0c:60:32:+12:29S:178W::
ZL9:Auckland, Campbell Is:0c:60:32:+12:51S:166E::
ZP:Paraguay:SA:14:11:-4:26S:57W:ZP:
ZS:So Africa:Af:57:38:+2:26S:28E:H5,S4,S8,V9,ZR-ZU:
ZS1:Penguin Is:Af:57:38:+2:27S:15E::
ZS8:Pr Edward & Marion Is:Af:57:38:+3:47S:38E::
ZS9:Walvis Bay:Af:57:38:+2:23S:15E::
1A0:SMO Malta:Eu:28:15:+1:42N:13E:1A~:
1M*:Minerva Reef:0c:62:32:-12:24S:179W::
1S:Spratly Is:As:50:26:+7:9N:112E:1S~:
3A:Monaco:Eu:27:14:+1:44N:8E:3A:
3B6:Agalega & St Brandon:Af:53:39:+4:10S:57E::3B7
3B8:Mauritius:Af:53:39:+4:20S:58E:3B:
3B9:Rodriguez Is:Af:53:39:+4:20S:63E::
3C:Equatorial Guinea:Af:47:36:-1:4N:9E:3C:
3C0:Pagalu:Af:52:36:-1:1S:6E::
3D2:Conway Reef:0c:56:32:+12:22S:175E::
3D2:Fiji Is:0c:56:32:+12:18S:178E:3DN-3DZ:
3D2:Rotuma:0c:56:32:+12:13S:177E::
3DA:Swaziland:Af:57:38:+2:26S:31E:3DA-3DM:3D6
3V:Tunisia:Af:37:33:+1:37N:10E:TS,3V:
3W:Vietnam:As:49:26:+7:11N:107E:XV,3W:
3X:Guinea:Af:46:35:+0:10N:14W:3X:
3Y:Bouvet:Af:67:38:+0:54S:3E::
3Y:Peter I:An:72:12:-6:69S:91W::
4J1:Malyj Vysotskij Is:Eu:29:16:+3:61N:29E::
4K2:Franz Josef Land:Eu:75:40:+3:81N:48E::UA1
4S:Sri Lanka:As:41:22:+5.5:7N:80E:4P-4S:
4U:ITU Geneva:Eu:28:14:+1:46N:6E::
4U:UN HQ:NA:08:05:-5:41N:74W:4U:
4W*:Yemen Arab Rep:As:39:21:+3:15N:44E::
4X:Israel:As:39:20:+2:32N:35E:4X,4Z:
5A:Libya:Af:38:34:+2:33N:13E:5A:
5B:Cyprus:As:39:20:+3:35N:33E:C4,H2,P3,5B:
5H:Tanzania:Af:53:37:+3:7S:39E:5H-5I:
5N:Nigeria:Af:46:35:+1:6N:3E:5N-5O:
5R:Madagascar:Af:53:39:+3:19S:48E:5R-5S,6X:
5T:Mauritania:Af:46:35:-1:18N:16W:5T:
5U:Niger:Af:46:35:+1:14N:2W:5U:
5V:Togo:Af:46:35:+0:6N:1E:5V:
5W:Western Samoa:0c:62:32:-11:14S:172W:5W:
5X:Uganda:Af:48:37:+3:0N:33E:5X:

5Z:Kenya:Af:48:37:+3:2S:37E:5Y-5Z:
6W:Senegal:Af:46:35:+0:15N:18W:6V-6W:
6Y:Jamaica:NA:11:08:-5:18N:77W:6Y:
70:Yemen:As:39:21:+3:13N:45E:4W,70:
70*:Kamaran Is:As:39:21:+3:15N:43E::VS9K
70*:PDR Yemen:As:39:21:+3:13N:45E::
7P:Lesotho:Af:57:38:+2:29S:27E:7P:
7Q:Malawi:Af:53:37:+2:14S:34E:7Q:
7X:Algeria:Af:37:33:+0:37N:3E:7R,7T-7Y:
8P:Barbados:NA:11:08:-4:13N:60W:8P:
8Q:Maldiva Is:As, Af:41:22:+5:4N:73E:8Q:
8R:Guyana:SA:12:09:-3.75:6N:58W:8R:
8Z4*:S Arabia/Iraq NZ:As:39:21:+3:29N:46E::
8Z5*:Kuwait/S Arabia NZ:As:39:21:+3:29N:48E::9K3
9G:Ghana:Af:46:35:+0:5N:0W:9G:
9H:Malta:Eu:28:15:+1:36N:15E:9H:
9J:Zambia:Af:53:36:+2:15S:28E:9I-9J:
9K:Kuwait:As:39:21:+3:29N:48E:9K:
9L:Sierra Leone:Af:46:35:+0:9N:13W:9L:
9M2:West Malaysia:As:54:28:+7.5:3N:102E::9M4
9M6:East Malaysia:0c:54:28:+8:2N:110E:9M,9W:9M8
9N:Nepal:As:42:22:+5.5:28N:85E:9N:
9Q:Zaire:Af:52:36:+1:4S:15E:90-9T:
9S4*:Saar:Eu:28:14:+1:49N:7E::
9U:Burundi:Af:52:36:+3:3S:29E:9U:
9U5*:Ruanda-Urundi:Af:52:36:+3:3S:30E::
9V:Singapore:As:54:28:+7.5:1N:104E:S6,9V:
9X:Rwanda:Af:52:36:+3:2S:30E:9X:
9Y:Trinidad & Tobago:SA:11:09:-4:11N:62W:9Y-9Z:
~~*:Blenheim Reef:Af:41:39:+5:7S:72E::
~~*:Geyser Reef:Af:53:39:+3:12S:46E::
----- cut here ----- cut here ----- cut here -----

--Myron.

--

We preserve our freedoms using four boxes: soap, ballot, jury, and cartridge.
Myron A. Calhoun, PhD EE; Assoc. Professor (913) 539-4448 home
INTERNET: mac@cis.ksu.edu 532-6350 work, 532-7353 fax
UUCP: ...rutgers!depot!mac Packet radio: WOPBV@NOARY.#NOCAL.CA.USA.NA

Date: Thu, 22 Jul 93 08:27:00 GMT
From: mercury.hsi.com!a3bee2!cyphyn!randy@uunet.uu.net
Subject: Popular Electronics advertises perpetual-motion machine.
To: info-hams@ucsd.edu

bodoh@dgg.cr.usgs.gov (Tom Bodoh) writes:

: In article <1993Jul21.071441.15521@pixar.com>, bruce@pixar.com (Bruce Perens) writes:

: |> If you see the September issue of Popular Electronics (which is on
: |> newsstands now) take a look at the inside front cover. It's a full-page
: |> ad for the new Mohawk Environmental Services "SWITCH-CHARGER". This
: |> amazing device allows a battery to recharge itself while at the same
: |> time powering a circuit!

: |>

: |> Yes, Popular Electronics published a full-page ad for a perpetual
: |> motion device on the inside front cover of their September issue.
: |> I haven't read PE regularly since my childhood - I knew they'd
: |> been in decline for 20 years, but had no idea they'd gone this low.

: |>

: |> The ad goes on to say that you can get the plans for this device for
: |> just \$100, check or money order only. Send it to a post office box in
: |> Springfield, MA. No phone number is given.

: |>

: |> Funniest of all are the blurry pictures of the device: a poorly cropped
: |> picture from one angle, a very small picture at another angle, and a
: |> low-resolution blow up of the small picture! Two identical images,
: |> different sizes. The device appears to consist of a glass of ice cubes
: |> on a board with speaker terminals on either side of it. A blurry
: |> diagram similar to a bridge rectifier is drawn on a cap on top of the
: |> glass of ice cubes.

: |>

: |> Now, obviously, PE isn't going to get paid for this ad. It's either
: |> straight fraud, in which case the P.O. box is collected from once and
: |> the con artist disappears, or it's a malicious joke on PE. In either
: |> case it's clear that nobody with even half a brain checks their ads.
: |> I'd be embarassed to be seen with a copy of their magazine after this.

: |>

: |> Bruce Perens KD60TD

:
:

: --

: You mean you don't have one yet? I ordered the rapid-charge version for
: my HT and it now xmits 100 watts ;-)

:

: ++++++

You got one of those too? Dog gone! I got the model C one you connect to
yer computer....I'm using it right now to type this.

I got it hooked up to a 9 volt battery which then leads to the 486 and the
desk lamp.

Haven't had an electric bill in 2 months now.

Wait till you see the one that goes in yer car! You put a washing machine
moter where yer gas engine would normally go....

--

Randy, KA1UNW If you get a shock while servicing your equipment
DON'T JUMP! You might break an expensive tube.

Date: 23 Jul 93 11:15:23 GMT
From: news-mail-gateway@ucsd.edu
Subject: pse on the mail-reflector
To: info-hams@ucsd.edu

Hi
is it possible to put me on the distribution-list of the mail
reflector ?

73 de Dieter, DF4RD (Member of the Bavarian Contest Club)

PACKET: DF4RD@DB0BOX.#BAY.DEU.EU

[] name: Dieter DIPPEL
>[] callsign: DF4RD
>[] mail: Fenitzerstr. 33; D-90489 Nuernberg
>[] internet: UNRZ45@daphne.rrze.uni-erlangen.de
>[] packet: DF4RD@DB0BOX.#BAY.DEU.EU

Date: 23 Jul 93 00:38:56 GMT
From: news-mail-gateway@ucsd.edu
Subject: S meters and modern technology
To: info-hams@ucsd.edu

Kevin, KN6FQ writes:

In article <10772@tekig7.PEN.TEK.COM> royle@tekig6.PEN.TEK.COM (Roy W Lewallen)
writes:

>>doesn't sell rigs, so it isn't done. (I'm told but haven't verified that the
>>old Collins rigs had not only a consistently sized S-unit, but a calibrated
>>signal strength for S9. Neither of these is so for modern rigs.)

>My Hammarlund SP-600 has an S-meter calibrated in uV and dB, although I
>haven't looked at a schematic or tested it for accuracy.

I think the scale is called the dbuV, with the reference (0 db) at 1uV.
On "our" S-scale, 1uV is a solid S3 (or about -108dbm). Wonder why amateur
gear didn't just stay with this arrangement? It makes too much sense in
all likelihood! Or maybe it was too technical and not arbitrary enough,

or difficult to do, or what? Look at how it works! 0db is 1uV, +20db is 10uV, +40db is 100uV, and so on....Seems to me that there is a reasonable answer in that there just isn't enough "reports" to describe it perhaps. I mean, with the 'S' system we squeeze S1-6 between 0 and +20dbuv. But then again there are more (0-20) on the other! Who knows? Instead of sending 569 on CW you'd need to say 5219, Hi! Maybe thats it!? RST 579 would be a bad report (S4)!

Wonder how accurate they were?

Yes, you're right! And that point made me remember that there were several radios of that vintage that also indicated signal strength in dbuV values. I used to work on a few models that had that feature when I was in the Navy, and I plum forgot! The R-390 series was one, and before it, it's kin the R-388 and 389. There were others as I recall as well. We didn't calibrate the meters on maintenance however, as the application was a special signals intercept mission, and the radios were fitted with wide-band IF's (125khz)!

That brings a question to mind for me. In fact, I wanted to ask this in a different note, and forgot or couldn't make it fit in, so I left it out.

Does anyone know when/how the concept of the S-meter really got started?

There are several reasons for the question, such as:

- 1) Since the entire S-meter scale itself is not "anchored" in any real absolute value, I wonder how/why they placed it as they did when referenced to the dbm values? What I mean is, why did they (wonder who they were?) place the scale such that S9 is -73dbm? I mean, why not S9 at 45uv, or 35 or 63uv, or -72dbm?
- 2) Or was the low end S0 and S1 placed where it was relative to the typical receivers of the day, and it just happened that that resulted in S9 becoming 50uv when the scale was referenced to the dbm scale?
- 3) Was it started by an amateur proposal, or perhaps a manufacturer?
- 4) Or why not the dbuV scale as presented above by Kevin? It certainly could never have suffered from the plight of the S-meter scale and its sort of dubious nature and reputation. It was widely used and the reference absolutely specified, for all to see. No room for arbitrary interpretation here; 0db IS 1uV! Nice and clean and clearcut. I like that!

The S-scale was kind of "spliced" to the others in a sort of arbitrary way, by whoever, and its dubious nature has become its accepted fate thru haphazard application over the years. So much so, that most of our fraternity don't or won't accept

the specification, and still believe "there is no standard for S-units", which is what started this thread to begin with.

You wanna' know why there's so much confusion and lack of acceptance of this idea of a standard. Witness this from note 877:

>>>> Contrary to popular belief, there is no standard for S-unit size. <<<<

WJ1Z, David Newkirk, Senior Asst Tech Editor, American Radio Relay League added from 879:

"I agree with this statement in the sense that there is no *one, agreed-upon and liberally applied standard.* To *me*, that's the same as saying "there is no standard,"

OK, but do you think it could be made to be more "liberally applied"? Is there any chance of that, I wonder? Maybe if it was prominently displayed in "our" journal on occasion the people that build the hardware might just get on the bandwagon and get it right instead of perpetuating the myth.

Then David added this, also from 879:

"For the record, however, IARU Region 1 adopted the 6-dB-per-S-unit, S9=50-microvolts standard sometime ago. So, ham-politically speaking, there *is* an S-meter standard, as non-operative as it may be."

I'm assuming that this concept (the S-scale) was originated by radio amateurs, because I don't know of any commercial or military radio discipline that uses the 'S' scale as a reporting system. That doesn't mean they don't, I just don't know of any.

I do know that there was apparently a time when receivers did not have such a scale, but as Kevin said above, they indicated uV, db or some arbitrary value that was truly irrelevant. The advent of the S-scale just seems to have added another.

73
Paul
WB2OYC
ar..

Date: 22 Jul 93 21:54:38 GMT
From: news-mail-gateway@ucsd.edu
Subject: S Meters and Modern Technology (was Re: TS50)
To: info-hams@ucsd.edu

One simple way of calibrating rigs would be to use a marker generator that generates a very fast pulse (a few nS from a 74F00 or a schottky diode) at say 1Mhz rep-rate (just the old crystal calibrator with a fast switch). By using a very short pulse you will get almost equal contributions in all the harmonics (remeber your Fourier transform theory?) so there are no problems calibrating the frequency response of the reference oscillator. Then add a switchable attenuator (wouldn't need many levels perhaps even a PIN diode attenuator controlled by a DAC) and some software. Just a SMOP :-)

Given that all modern rigs already have a bunch of xtal osciallators in the box (or just one on the fancy rigs!) this seems to be a minimum amount of extra components to acomplish an accurate self calibration.

Question to the person who said that the IARU region one has a standard 5.6dB S unit. Why 5.6dB? Why not just define S9 as 50uV in 50 ohms (-73dBm) and left S1 be 48dB less (there are 8 6dB steps from s9 to s1) at -121dBm. This is also strange given the noise floorin most RXs these days is < -135dBm (under the band noise). The thermal noise floor is only -148dBm in 500Hz at 298K.

I think I agree with Zack Lau -- the signal strength meter should give an indication in dBm at the antenna socket and not some artifically referenced level.

For that 6 levels should be enough:

- 0 -- inaudible (!)
- 1 -- barely audible (just above the MDS)
- 2 -- weak signal
- 3 -- moderate signal
- 4 -- strong signal
- 5 -- very strong signal

Bears a funny resemblance to the readbility scale

There is also a good psycological basis for this. See the "Magic number 7 plus or minus 2" paper on the fineness of discrimination a human can make. Normally about 3 bits worth.

I won't go into the tone scale -- but I guess we have to keep T1 thru T6 just in case spark transmitters or rectifiers go out of style :-)

Kevin Purcell N7WIM / G8UDP
a-kevinp@microsoft.com
Sit simplex, stulte!

Date: 22 Jul 93 12:00:15 GMT
From: att-out!cbfsb!cbnews!wrb@RUTGERS.EDU
Subject: Super Morse problem in Windows
To: info-hams@ucsd.edu

In article <21870041@hplvec.LVLD.HP.COM> tcline@hplvec.LVLD.HP.COM (Ted Cline) writes:

>
>> In rec.radio.amateur.misc, david@bu.edu (David Gagnon) writes:
>>
>> I am having a bit of difficulty with the Super Morse program. It works fine
>> when I run it directly from DOS, but if I try and call it from within
>> Windows or in a DOS shell under Windows, I end up with the dits sounding
>> like clicks instead of tones, and the dahs sounding like proper tones.
>>
>> --
>> David R. Gagnon, MD MPH
>> Boston University School of Public Health
>> Boston, Massachusetts
david@med-busphib.bu.edu
gagnon@math.bu.edu
(617) 638-5172
>
>
>I did a test and "me too": My SM 3.16 works fine under DOS, but I also
>get clicks for dots under Windows 3.1 (machine = HP Vectra 486/66ST, DOS
>5.0).
>
>But sorry, I have no solutions.
>
>73
>
>----
>Ted Cline, N0RQV
>ted_cline@hplsla.lvld.hp.com
>tcline@hplslx.lvld.hp.com
>VOICE: (303) 679-2352
>FAX: (303) 679-5971
VXI Systems Division
Hewlett-Packard, M/S CU-326
815 14th Street SW
P.O. Box 301
Loveland, CO 80537 USA
>

Sorry, no solutions here either. But maybe some insight. It is not easy to get accurate timing info on a DOS machine. Remember that, at least for now, a PC running Windows is still a DOS machine underneath - it just has some pretty makeup.

Most timing functions provided in popular programming languages (i.e. Turbo C) rely on the timer interrupt which occurs something like every 18 ms (working from memory - not sure, but close). This is OK for many things, but you would be surprised how bad CW with even slight timing sloppiness sounds. As a result, programmers might have to do some pretty ugly stuff

to get accurate timing. This ugly stuff probably won't be too portable or robust. Sooo, when you run it under Windows with its pseudo-multitasking, the timing mechanisms no longer work correctly.

Just a thought.

```
+=====+      Happy user of OS/2 2.0!
| Wally Blackburn      |      Ask me about it!
| wrb@ccsitrn.att.com  |
| AT&T NSD             |
| Amateur Radio Station AA8DX      |      Clinton-Gore - Socialist Leadership
| 614-575-6604         |                      for the 90's!
+=====+
```

Date: Thu, 22 Jul 1993 11:19:03 GMT
From: psinntp!isc-newsserver!ultb!bad1679@uunet.uu.net
Subject: UCSD gateway HELP!
To: info-hams@ucsd.edu

> From: curry@SCTC.COM (Russ Curry)
> Message-Id: <9307191610.AA17786@SCTC.COM>
> Subject: Yaesu FT530 (fwd)
> To: bad1679@ultb.isc.rit.edu
> Date: Mon, 19 Jul 93 11:10:19 CDT

> HELP ME: I have (brain dead) limited access to nets. Where do I send
> input stuff (like this) to get it in INFO-HAMS? I rely on the UCSD mail
> reflector for my feed. Can't get news. Grrrrrrrrr.
>
> '73. /s Bill, WB8ZQK

Please reply to curry@SCTC.com and carbon copy to
bad1679@ultb.isc.rit.edu. Thanks..

Bernnie nu1s/2

--
Electrical Engineering, Rochester Institute of Technology, Rochester, NY
Ax25 Packet: NU1S @ WB2PSI.#WNY.NY.USA.NOAM (normal packet route)
TCP/IP: nu1s@nu1s.ampr.org [44.69.0.37]
Internet (school): bad1679@ultb.isc.rit.edu

End of Info-Hams Digest V93 #890
